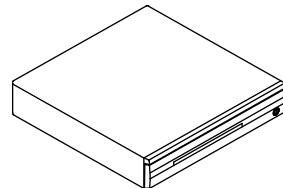


CR-4000/6000 SERIES

CASH DRAWER

USER'S MANUAL

POSIFLEX



FCC Notes:

Rev. B0

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with limits for a Class A digital device pursuant to subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures to correct the interference.

Warranty Limits:

Warranty terminates automatically when any person other than the authorized technicians opens the machine. The user should consult his/her dealer for the problem happened. Warranty voids if the user does not follow the instructions in application of this merchandise. The manufacturer is by no means responsible for any damage or hazard caused by improper application.

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MODEL NUMBERS

Model	CR400X/4015	CR410X/4115	CR421X/4225/ CR6015/621X
Bill Compartment	5 Adjustable	5 Fixed	5 Fixed
Bill clip	Plastic	Metal	Metal
Coin compartment	9 Fixed	9 Fixed	5 Fixed
Coin Roll storage	1 Underneath Cash Tray		4 Behind Cash Tray

Note: 1. CR-4020 series is a special model having 9 bill compartments with plastic bill clip and no coin compartment
2. CR-621X series is heavy duty metal casing

INTERFACE APPLICATION

Model Number	Interface	Security Code	Power / Source
CR-4000/4020/4100/ 4210/CR-6210	Printer drive	N. A.	12/24 V Pulse / Printer
CR-4001/4101/4211	Dedicated RS232 serial	N. A.	12VAC / Adaptor
CR-4002/4102/4212	Non-dedicated RS232 serial	0 ~ 255	
CR-4003/4103/4213	Parallel	0 ~ 255	
CR-4004/4104/4214 CR-6214	Dedicated RS232 serial	N. A.	12VDC / PC
CR-4005-II/4105-II /4215-II/ CR- 6215	USB	USB PID	12VAC / Adaptor
CR-4015/ CR-4115/ CR-4225/CR-6015	USB	USB PID	USB Port

CARTON CONTENTS

1. Cash drawer pre-assembled.
2. User's manual.
3. Separators of bill compartment: 4 pcs (for CR4000~4, CR4005-II and CR4015 only).
4. Key 2 pcs: There is a key serial No. sticker on the cash drawer bottom plate. If user lost the key he/she can order the key according to this number.
5. Signal Cable depend on model

a). For CR4000/4020/4100/4210/6210: The standard signal cable is 21863018010 which has a 8 pin plug at one end to connect to the cash drawer and a 6 pin plug at the other end to connect to the POS system/printer. This cable serves for most popularly used POS equipment such as all Posiflex POS terminals, all Posiflex POS printers, most Epson POS printers, most Star POS printers and all other compatibles. The user may cut the 6 pin end and assemble this free end according to his POS printer specification if the POS printer used utilizes different connection. The cable connection on the wires is as below:

Wire color	RJ45	Function
Red	Pin 1	Drawer open sense
Blue	Pin 2	Drawer open sense return
Green	Pin 7	+ 24V to solenoid
Yellow	Pin 8	Drawer kick pulse

b). For CR4001/ 4101/ 4211/ 4002/ 4102/ 4212: 21863137210 /21863237210 with one 9PM and one 9PF connector.

c). For CR4003/ 4103/ 4213: 21863231810 with one 25PM and one 25PF connector.

d). For CR4004/ 4104/ 4214/ 6214: The serial signal cable is already built on.

e). For CR-4015/ 4005-II/ 4115/ 4105-II/ 4215-II/ 4225/ 6015/ 6215: USB cable is already built on.

6. Power Source depend on model

a). For CR-4000/ 4020/ 4100/ 4210/ 6210: not applicable

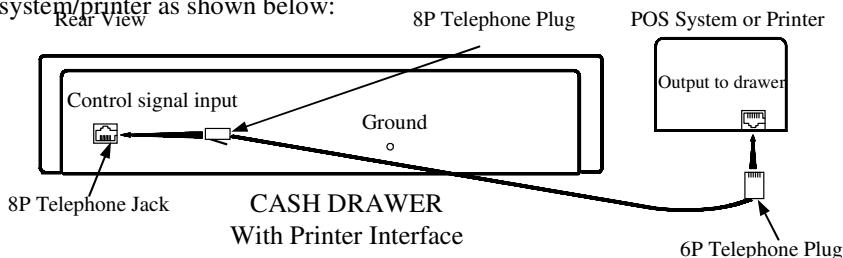
b). For CR-4001/ 4101/ 4211/ 4002/ 4102/ 4212/ 4003/ 4103/ 4213/ CR4005-II / 4105-II/ 4215-II/ 6215: Power adapter 12VAC 1.5A

c). For CR4004/ 4104/ 4214/ 6214: Power connector cable and I/O bracket plate.

d). For CR-4015/ 4115/ 4225/ 6015: There is no power adaptor needed, the power source drain from USB port directly.

INSTALLATION

CR4000 / 4020 / 4100 / 4210 / 6210 Connect the drawer to **POS system/printer** as shown below:



CR4001 / 4101 / 4211

- 1). Connect the drawer serial I/P port to the computer COM port. Connect the power adapter output to the Power Input jack
- 2). No other RS232C devices should be connected to the serial O/P port.
- 3). Set position 3 of S2 to OFF and position 4 of S2 to ON. Please refer to rear panel illustration.

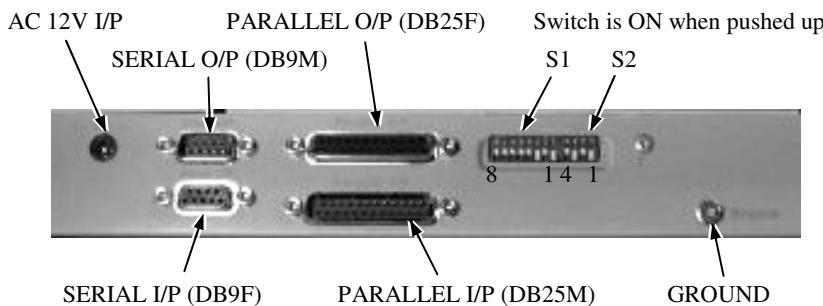
CR4002 / 4102 / 4212

- 1). Connect the drawer serial I/P port to the computer COM port. Connect the power adapter output to the Power Input jack.
- 2). Other RS232C device can be connected to the serial O/P port when needed as long as the security code makes no influence to this RS232C device.
- 3). Set position 3 of S2 to ON and position 4 of S2 to OFF. Set S1 for security code to open cash drawer. In normal practice, the security code is suggested to be a non-displayable ASCII character, for example, a hexadecimal number between 01 to 1F. Please refer to rear panel illustration below.

CR4003 / 4103 / 4213

- 1). Connect the drawer parallel I/P port to the computer LPT port. Connect the power adapter output to the Power Input jack.
- 2). Other parallel device such as a printer can be connected to the parallel O/P port when needed as long as the Security code makes no influence to this parallel device.
- 3). Set S1 for security code to open cash drawer. In normal practice, the security code is suggested to be a non-displayable ASCII character. For example, a hexadecimal number between 01 to 1F. Please refer to rear panel illustration below.

CR4001/ 4101/ 4211/ 4002/ 4102/ 4212/ 4003/ 4103/ 4213 Rear panel illustration.



S1 Set security code. (Default Setting: BIT 1,2,3 OFF and BIT 4,5,6,7,8 ON. Security code is 07H)

BIT	1	2	3	4	5	6	7	8
Number to be added to the security code if OFF.	1	2	4	8	16	32	64	128

S2 BIT1 ON and BIT2 OFF to receive security code via Pin2 of P4 (DB9F).

BIT1 OFF and BIT2 ON* to receive security code via Pin3 of P4 (DB9F).

BIT3 OFF and BIT4 ON for dedicated RS-232C.
BIT3 ON and BIT4 OFF* for non-dedicated RS-232C.

BIT3 OFF and BIT4 ON for dedicated RS-232C.
BIT3 ON and BIT4 OFF* for non-dedicated RS-232C.

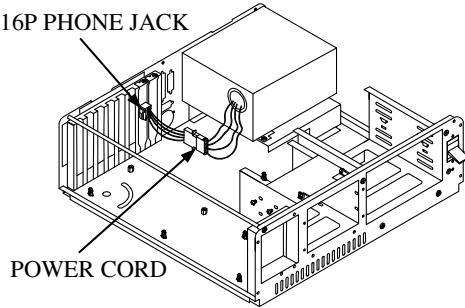
(* denotes factory default setting)

(denotes factory default setting)

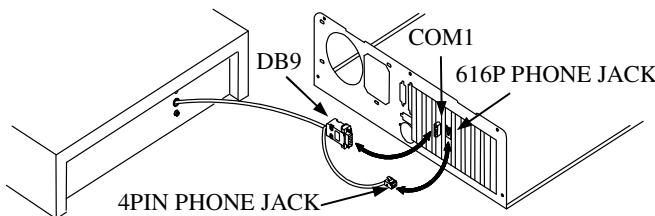
1 / 4104 / 4314 / 6314

CR4004 / 4104 / 4214 / 6214

- 1). Open the PC case. Put the metal bracket with power connector into one of the I/O windows.
- 2). Connect the cable to the **HDD** type power connector of PC power supply. See illustration below. Then close the PC case.

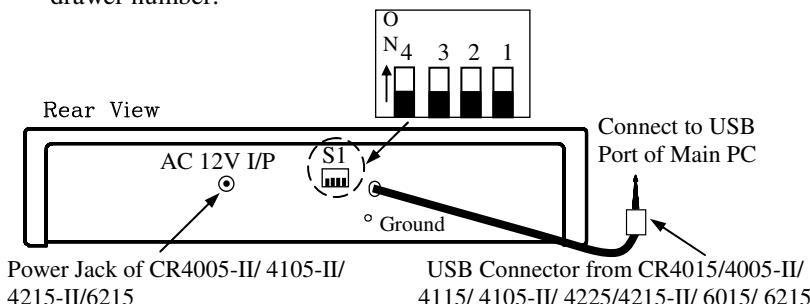


3). Connect the DB-9 connector to the computer's serial port of COM1 (or COM2). Connect the 4P phone plug connector to the added I/O bracket. See below illustration.



CR4015/ 4005-II / 4115/ 4105-II / 4225/ 4215-II / 6015/ 6215

1). Define a drawer number for the cash drawer so that this cash drawer is going to respond accordingly in USB communication. Follow the table below for "Switch settings" to adjust the switch S1 according to this drawer number if it is not 7. Please note that within each system there should never be any 2 USB interface cash drawers carrying the same drawer number.



Rear View of Model CR4015/ 4005-II/ 4115/4105-II/ 4225/ 4215-II/ 6015/ 6215 Cash Drawer with USB Interface

For CR-4015/ 4115/ 4225/ CR-6015 there is no AC power input in back panel.

Switch settings:

Drawer	0	1	2	3	4	5	6	7
SW1	ON	OFF	ON	OFF	ON	OFF	ON	OFF
SW2	ON	ON	OFF	OFF	ON	ON	OFF	OFF
SW3	ON	ON	ON	ON	OFF	OFF	OFF	OFF
SW4	ON: Vendor Class				OFF : HID Class			

Default setting: Drawer 7 (SW1: OFF; SW2: OFF; SW3: OFF; SW4: OFF)

- 2). Connect USB connector of cable coming out from the rear side of the USB interface cash drawer to USB port of main PC.
- 3). Check the specification of power adaptor on its nameplate. Insert the power adaptor into the correct power outlet. Insert the output plug to the jack at rear side of CR4005-II/ 4105-II/ 4215-II/ 6215 to supply power for drawer kickout.
- 4). Install the USB utility driver from Posiflex Product Information CD with Posiflex POS system or visit our web sites <http://www.posiflex.com> or <http://www.posiflex.com.tw> or <http://www.posiflexusa.com> for latest updates.

UPOS driver application (Applied for all Posiflex cash drawer)

Please first find in Posiflex Product Information CDROM or download from Posiflex web sites for UPOS driver setup. In this application CR4XX3 and CR4XX4/ 6214 respond to openDrawer command only; CR4XX0/ 6210, CR4XX1 and CR4XX2 are compliant to UPOS version 1.7 and CR4015/ 4115/ 4225/ 4XX5-II/ 6015/ 6215 are compliant to UPOS version 1.8.

SPECIFICATIONS

MECHANICAL:	Dimensions: 428 (W) x 460 (D) x 100 (H) mm (CR-4000) 428 (W) x 456 (D) x 100 (H) mm (CR-6000)
	Weight: 7.0 Kg (CR-4000) 8.8 Kg (CR-6000)
Removable tray with a lock-on cover (option)	

ELECTRICAL:

Power Source

Solenoid Drive (for CR-4000 / 4020 / 4100 / 4210 / 6210)
Pulse Amplitude 12 to 24 VDC
Pulse Width 100 to 250 msec
Pulse Duty Cycle 10% max.
Max. Current Consumption 0.75A @ 12 VDC/1.5A @ 24 VDC
AC Adaptor (for CR-4001/ 4101/ 4211/ 4002/ 4102/ 4212/ 4003/ 4103/ 4213/ 4005-II/ 4105-II/ 4215-II/ 6215)
Input Voltage 120 VAC ± 10 % / 240 VAC ± 10 % @50 -60 Hz
Output Voltage 12 VAC at 1.5 A

DC Power Kit (for CR-4004 / 4104 / 4214 / 6214): +12 V DC and + 5 V DC

Interface

Direct Drive: CR-4000/ 4020/ 4100/ 4210/ 6210

Serial (RS232C):	CR-4001	CR-4002	CR-4004
	CR-4101	CR-4102	CR-4104
	CR-4211	CR-4212	CR-4214/ 6214
Baud rate	9600	9600	150 ~ 19200
Parity	None	none	none, even, or odd
Data Bits	8	8	7 or 8
Stop Bits	1 or 2	1 or 2	1 or 2

Parallel (IEEE1284): CR-4003/ 4103/ 4213

USB (1.1): CR-4015/ 4005-II/ 4115/ 4105-II/ 4225/ 4215-II/ 6015/ 6215

Security Code

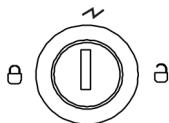
CR-4002/ 4102/ 4212/ 4003/ 4103/ 4213 1-255; factory preset
value = 7
CR-4015/ 4005-II/ 4115/ 4105-II/ 4225/ 4215-II USB PID
CR-6015 / 6215

Drawer Open Sense

CR-4000/ 4020/ 4100/ 4210 Drawer open sense circuit
CR-6210 shorts when open

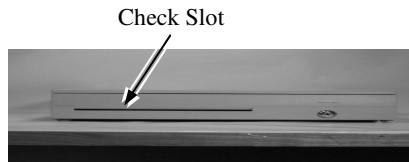
CR-4001/ 4101/ 4211/ 4002/ 4102/ 4212 Pin 9 shorts to pin 5 when
CR-4015/ 4005-II/ 4115/ 4105-II/ 4225/ 4215- drawer open
II/ CR-6015/ 6215 Through USB driver

KEYLOCK OPERATION

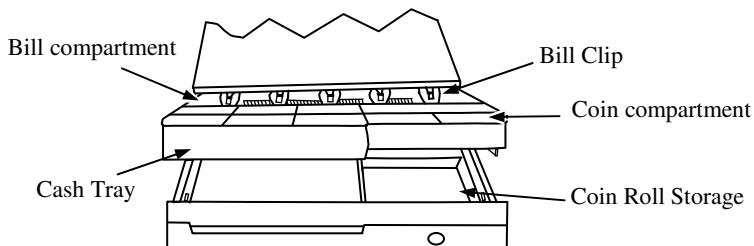


Lock (): Physically lock the drawer.
Open (): Open the drawer by the key.
Standby (): Automatically open the drawer by POS
printer or POS system or interface
signal control

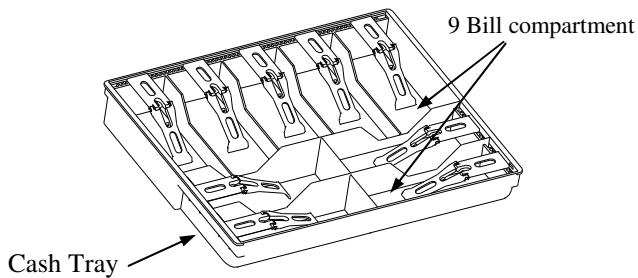
STRUCTURE



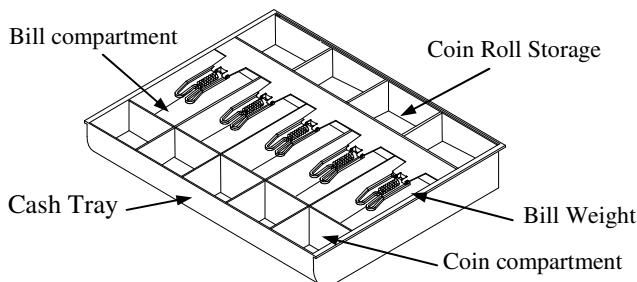
Inside CR-4000/ 4001/ 4002/ 4003/ 4004/ 4005-II/ 4015/ 4100/ 4101/ 4102/ 4103/ 4104/ 4115/ 4105-II



Tray for CR-4020



Tray for CR-4210/ 4211/ 4212/ 4213/ 4214/ 4225/ 4215-II / 6210/ 6214/ 6015/ 6215



Caution : For CR-4015/ CR-4115/ CR-4225 /CR-6015 which use USB port as power source; the drawer kick out duty cycle should not less than 15 seconds, otherwise it may not kick out the drawer.

